

# THE JUENGST

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GATHERER-COLLATOR

JOGGER-STITCHER

WIRELESS-BINDER



*Later than  
Dec '13*



# THE JUENGST

## "THREE-MACHINE COMBINATION" OR FOUR OPERATIONS AT ONE AND THE SAME TIME

Never before, so far as is known, was such a combination, in a form practically one machine, even attempted. By its three-fold capacity magazines, pamphlets, catalogs and such books may be handled with a facility considered hitherto impossible. The advantages are evident at a glance. The first machine is the gatherer-collator-jogger. Its operation may be briefly described thus:

The signatures are stacked in the hoppers in their regular order and can be replenished by supplying more of the same fold on top as the machine takes them away from the bottom, which is done by suckers being brought against the bottom of each pile and drawing down on the bottom signature or section, and at the same time the grippers swing in and grasp the drawn down signature, which, if it is correct (i. e., having the proper number of pages), will be drawn out and dropped into the conveyor channel, after which the carrier pins move the signature along in said channel to a point under the next section in time for the section to fall upon the preceding one, and in this way a continuous flow of gathered books are delivered at the opposite end of the machine. The collating is done as explained above, while the machine is in operation; should there be a leaf missing or a leaf too much in the section grasped by the gripper jaws, it will cause the machine to stop and allow for correction, which is done by dropping a perfect section on the pile where the imperfect section would have fallen; the imperfect section is then taken from the gripper jaw and the machine started.

The jogging is done by a patented jogger chain which jogs each signature as it falls, and in that way a gathered, collated and jogged book, ready for the stitching, is produced.

The two remaining sections (properly they may be termed

machines, by themselves), are respectively the stitcher and the binder. See page 2.

The stitcher consists of two or more wire staples as is usual in work of this class. From this machine the books pass on to the wireless binder which is shown on the cut as nearest to the reader, and more particularly on page 8.

This binder has a number of important improvements that insure a much larger output than is possible on any other binding machine.

A very important feature of this combination is the possibility of gathering and wireless binding, books, magazines, etc., by a method whereby the stitcher is cut out by a simple operation. If on the other hand the stitcher is allowed to do the stitching, the machine will gather, stitch and cover by omitting the cutting off of the backs of the signatures and thus produce a gathered, stitched and covered book, or in other words, this three machine combination will gather, stitch and cover, or gather and wireless bind, making both methods of binding possible on the same combination. It will be noticed thus, that with one turn of the gathering machine either combination will produce a complete book.

The speed is from 60 to 90 R.P.M. according to the size of the book.

The weight and floor space is governed entirely by the largest size of the book to be gathered.

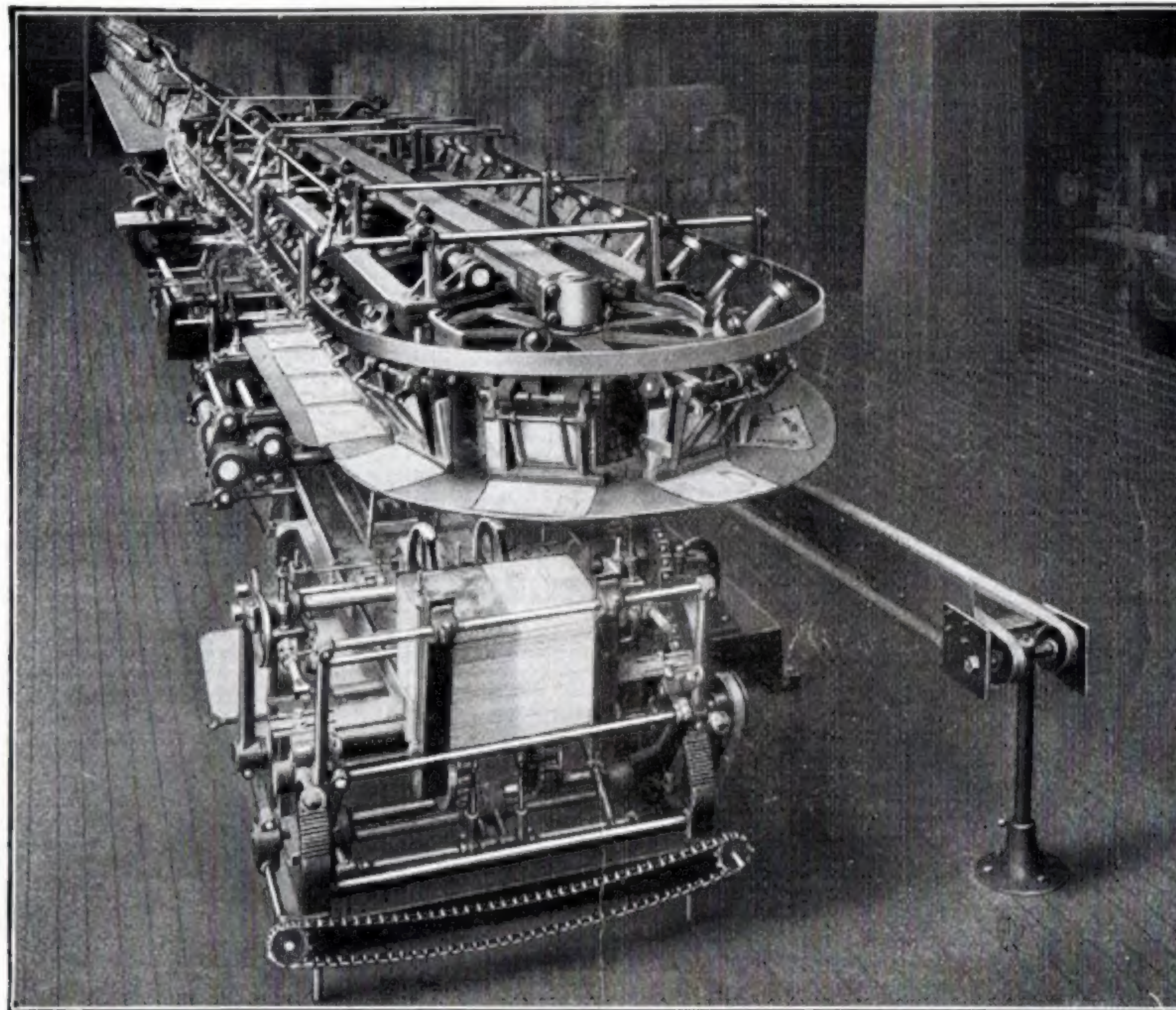
The following is the floor space necessary for the 7" x 10", the 9" x 12", the 10" x 14" 10-section gatherer with both the stitcher and binder attached.

7 x 10.....	45 ft. 6 in.	x 9 ft.	Each add. sec. 14¾
9 x 12.....	49 ft.	x 9 ft.	Each add. sec. 15⅞
10 x 14.....	55 ft. 6 in.	x 9 ft.	Each add. sec. 19¼



**Three Machine  
Combination**

**Gathering  
Stitching and  
Covering**



**or Gathering  
and Wireless  
Binding  
also  
Showing Our  
Automatic Feeder  
which Feeds  
the Covers**



## **What We Claim**

**T**HE illustration on the opposite page shows our Gatherer, Stitcher, Wireless Binder, which we offer to the bookbinding trade as a machine the value of which is best understood by them.

**SIMPLE IN ITS ACTION.**

**SMALLEST POSSIBLE FLOOR SPACE.**

**LABOR SAVING.**

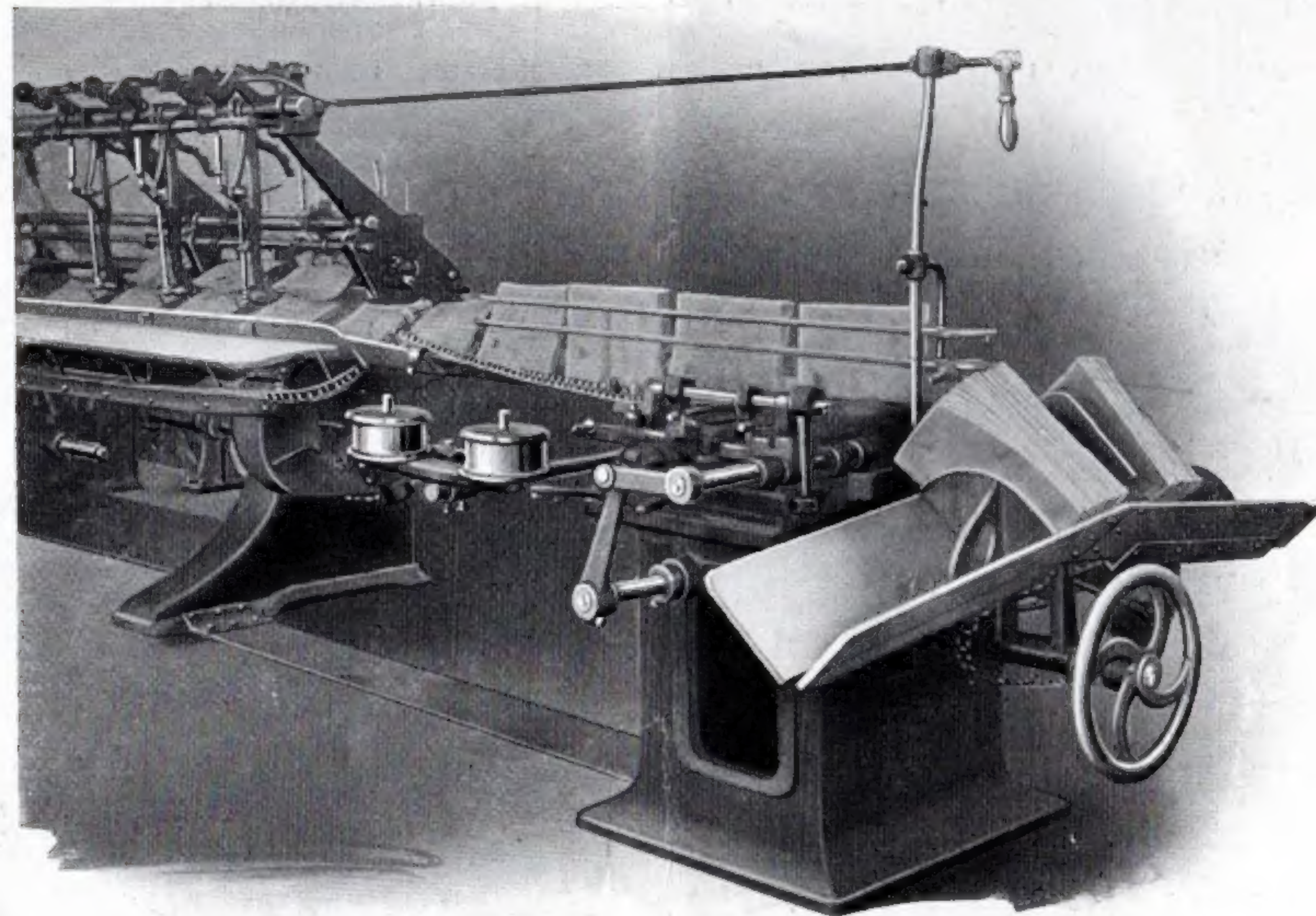
**AND ABOVE ALL, PERFECT BOOKS.**

These machines can be built with any number of boxes of any size from the smallest to those used for large catalogues.

The number of operators to run a twenty-four box machine is Five; two to feed the sheets in the boxes, one operator and an assistant to remove the imperfect signatures when the machine stops after detecting one and take care of machines, and one to remove the books after they are either Wire Stitched or Wireless Bound.



**Gathering  
Collating  
Jogging  
Stitcher**



**Stitcher as  
Attached to  
Gatherer only**

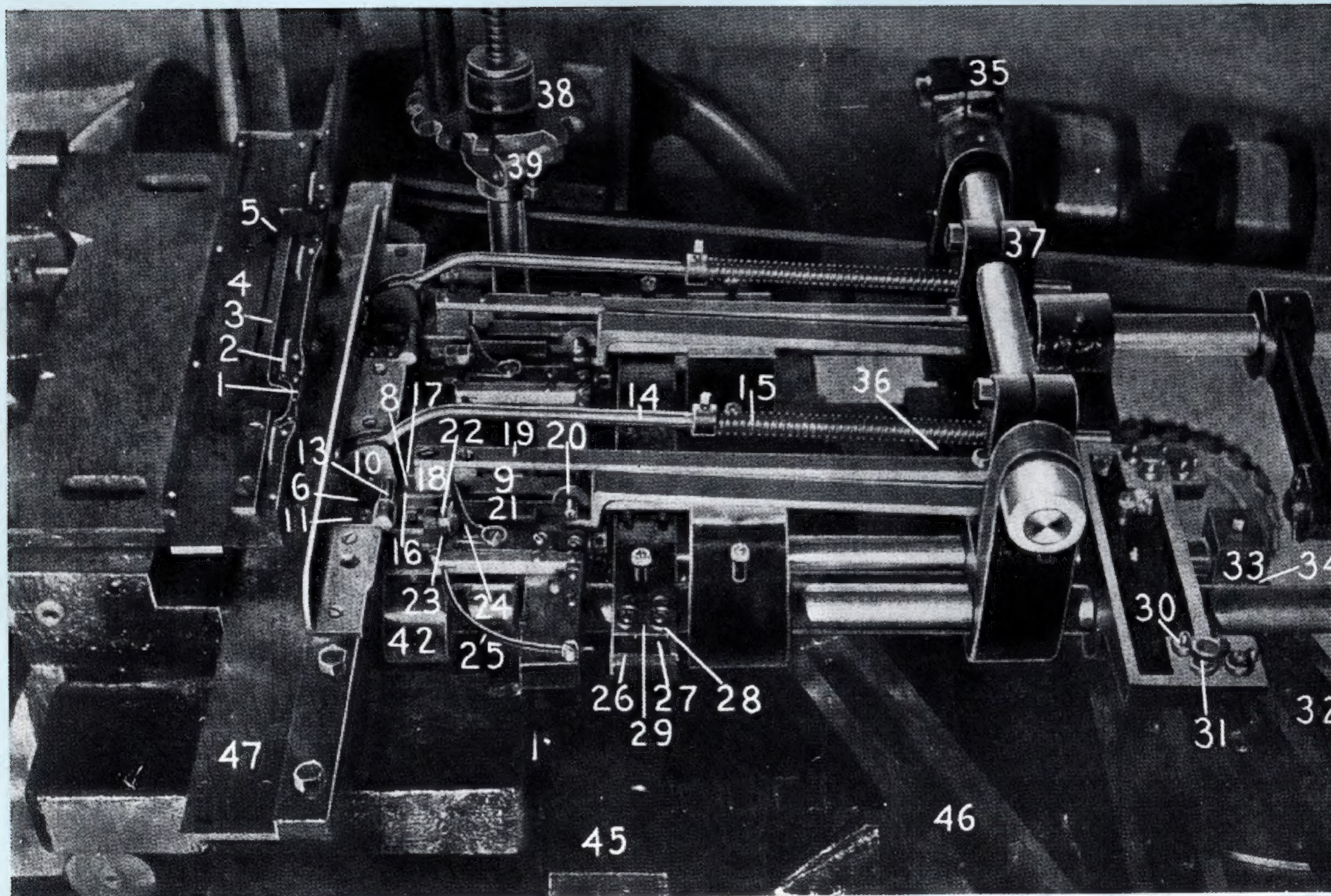


## Stitcher

**T**HE Stitcher, as shown on page 4 attached to the gathering machine, receives the books as they come from the gathering machine in a vertical position. The stitches being driven and clinched while the books are passing through the stitcher, the stitching mechanism having a reciprocating motion.

At the completion of the stitch, the books are delivered automatically by a conveyor to the binder which is shown on page 8. The books after being gathered, collated, jogged and stitched, pass in the same position, namely, vertical, through a conveyor to the binder which applies the crash, glue and cover. Or, on the other hand, if the books are to be bound so as to lay open flat, they pass through the stitcher without stitching, then on to the binder, which cuts off the backs of the books, roughing same by an ingenious device, after which they receive the glue, crash, and cover, the same as in stitched and covered books.





Repair Part  
or  
Top of  
Stitcher



# **Repair Parts for Stitcher**

**Refer to Cut  
Opposite for  
References**

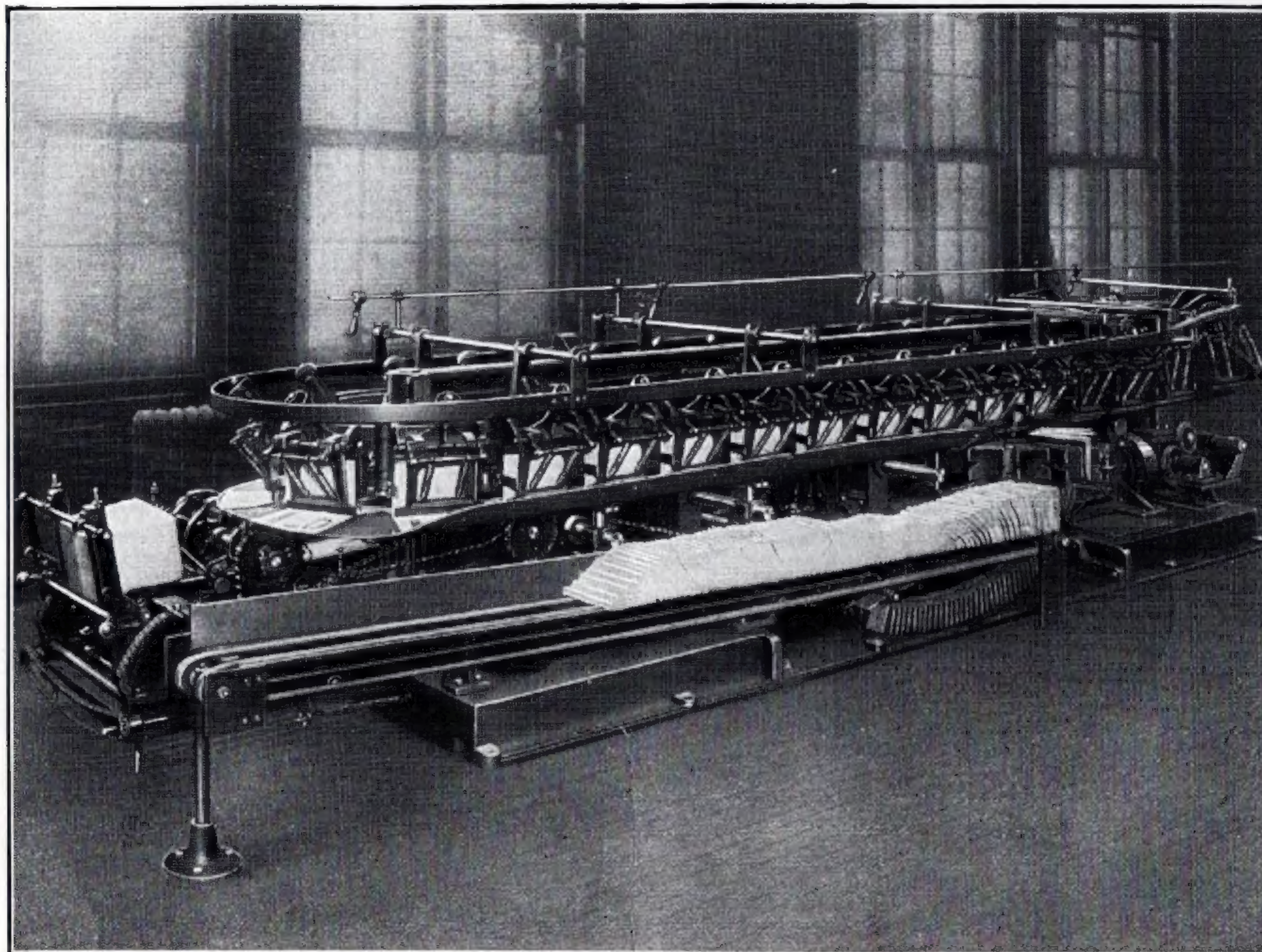
- 1—Clincher
- 2—Clincher Spring
- 3—Clincher Lift Bar
- 4—Clincher Rod
- 5—Clincher Lift Link
- 6—Left Hand Driver Die
- \* 7—Right Hand Driver Die
- 8—Driver
- 9—Driver Rod
- 10—Supporter
- 11—Left Hand Supporter Bearing
- \*12—Right Hand Supporter Bearing
- 13—Supporter Shaft
- 14—Supporter Rod
- 15—Supporter Spring
- 16—Left Hand Former Die
- 17—Right Hand Former Die
- 18—Former Hook
- 19—Former Hook Spring
- 20—Cutter
- 21—Cutter Box
- 22—Cutter Block
- 23—Check Dog
- 24—Wire Guide

- 25—Brass Guide Tube
- 26—Feed Dog
- 27—Feed Roller
- 28—Feed Roller Spring
- 29—Feed Roller Cover Plate
- 30—Straightener Roller
- 31—Adjustable Straightener Roller
- 32—Wire Feed Cam
- 33—Wire Feed Cam Roller Block
- 34—Wire Feed Cam Roller
- 35—Long Cutter Lever
- 36—Cutter Cam
- 37—Short Cutter Lever
- 38—Book Chain Sprocket
- 39—Book Chain Sprocket Carrier
- \*40—Book Chain Pin
- \*41—Plain Book Chain Link
- 42—Former Bar
- \*43—Former Bar Roller
- \*44—Former Bar Roller Stud
- 45—Former Cam
- 46—Driver Cam
- 47—Book Race Plate

\*Does not show on cut



**A Coverer or  
Wireless Binder  
Either  
Operation on  
the Same  
Machines**



**Production  
2500 to 3000  
per hour**



## Wireless Binder

**T**HE Binder, illustrated on the preceding page, is our Patented Automatic Binder, which has many features enabling it to have a rapid production.

One of the main features is that upon this machine a Book can be either Covered or Wireless Bound (*i. e., Perfect Binding, so-called*).

When the machine is part of a three machine combination it is automatic and handles the books as they come from the Gatherer-Stitcher; on the other hand, the Books are put into a Hopper, after which the Machine handles them automatically; thus it is a complete machine in itself and can be used in any Bindery having use for a machine of this character.



**Machines Now  
in Use in the  
Following  
Binderies**

Public Printer . . . . .	4	Washington, D. C.
Trow Company . . . . .	4	201 E. 12th St., N. Y. City
Chas. Schweinler Press . . . . .	4	141 E. 25th St., N. Y. City
Wm. Green . . . . .	2	627 W. 43d St., N. Y. City
Jersey City Printing Co. . . . .	2	37 Montgomery St., Jersey City, N. J.
McCall Publishing Co. . . . .	4	236 W. 37th St., N. Y. City
DeVinne Press (connected) . . . . .	2	395 Lafayette St., N. Y. City
P. F. Collier . . . . .	1	416 W. 13th St., N. Y. City
Hill Publishing Co. . . . .	1	505 Pearl St., N. Y. City
*Carey Printing Co. . . . .	1	6-8-10 E. 13th St., N. Y. City
*Street & Smith . . . . .	3	7th Ave. and 15th St., N. Y. City
*Chas. Francis Press . . . . .	2	30 W. 13th St., N. Y. City
*Federal Printing Co. . . . .	2	231 W. 39th St., N. Y. City
Sears, Roebuck Co. (connected) . . . . .	6	Chicago, Ill.
*American Medical Assn. . . . .	1	Chicago, Ill.
Abbott Press . . . . .	2	Chicago, Ill.
Brock & Ranken . . . . .	1	Chicago, Ill.
F. W. Hall Printing Co. . . . .	3	Chicago, Ill.
H. O. Shepard Co. . . . .	1	Chicago, Ill.
*Woodward Tiernan . . . . .	1	St. Louis, Mo.
*Con P. Curran Printing Co. . . . .	1	St. Louis, Mo.
Lechtman Printing Co. . . . .	1	Kansas City, Mo.
*Whitworth Bros. Co. . . . .	1	Cleveland, Ohio
Britton Printing Co. . . . .	1	Cleveland, Ohio
*D. C. Cook Publishing Co. . . . .	1	Elgin, Ill.
R. R. Donnelly & Sons . . . . .	2	Chicago, Ill.
Charles Broadway Rouss . . . . .	1	New York City
State Printer, California . . . . .	1	Sacramento, Cal.

Those marked \* have (3) three-machine combinations



Messrs. George Juengst & Sons,  
Croton Falls, N. Y.

NEW YORK, June 30, 1904.

Dear Sirs: We take great pleasure in advising you that we are very much pleased with the three gathering machines installed in both our Brooklyn and New York binderies. They have given us entire satisfaction and are doing the work in one-third the space formerly required for the same output. We believe it is the best machine of its kind so far on the market, as we have seen all the other makes and know their possibilities. The time consumed for making changes from a large to a smaller size, or vice versa, is very little when the accuracy of the detector is considered. We believe that all first-class binderies will install this machine as soon as they know its merits.

Very respectfully yours,

TROW DIRECTORY, PRINTING AND BOOKBINDING COMPANY.  
F. H. DOELLE, Manager.

Geo. Juengst & Sons Co.,  
Croton Falls, New York.

CHICAGO, Dec. 20, 1913.

Gentlemen:

Replying to your favor of Nov. 21st, in reference to our success with the Juengst gathering machines, will say that we bought our first machine, which was a 50-section machine, in 1907, and since that date we have bought two more of this same type of machine. We also are just having installed a 100-section special machine with stitching and covering machine attached.

During our busy season we run some, if not all, of these gathering machines day and night and do not have any more than ordinary troubles characteristic to gathering machines.

Very truly yours,

SEARS, ROEBUCK & Co.  
E. R. RICHARDS,  
Supt. Printing Plant.

Messrs. Geo. Juengst & Sons,  
Croton Falls, N. Y.

Nov. 24, 1913.

Gentlemen:—

We have had one of your gathering machines, with attached stitcher, running in our plant for the past eight years, delivering to the mails between 14 and 15 tons of bound copies of our publications every day, with splendid satisfaction.

These machines have required a little attention and occasional repairs, as good machines always do, but there has been no serious trouble and no delays to our mail on account of the machine. More than that no publisher could reasonably ask.

Yours very truly,  
JOHN A. HILL.

NEW YORK, June 30, 1904.

Messrs. Geo. Juengst & Sons,  
Croton Falls, N. Y.

Gentlemen:

We have had your Gatherer-Collator in operation now for about eleven months, and are pleased to say that it works perfectly satisfactorily.

Very truly yours,  
WILLIAM GREEN.

George Juengst & Sons,  
Croton Falls, New York.

NEW YORK, Nov. 25th, 1913.

Gentlemen:

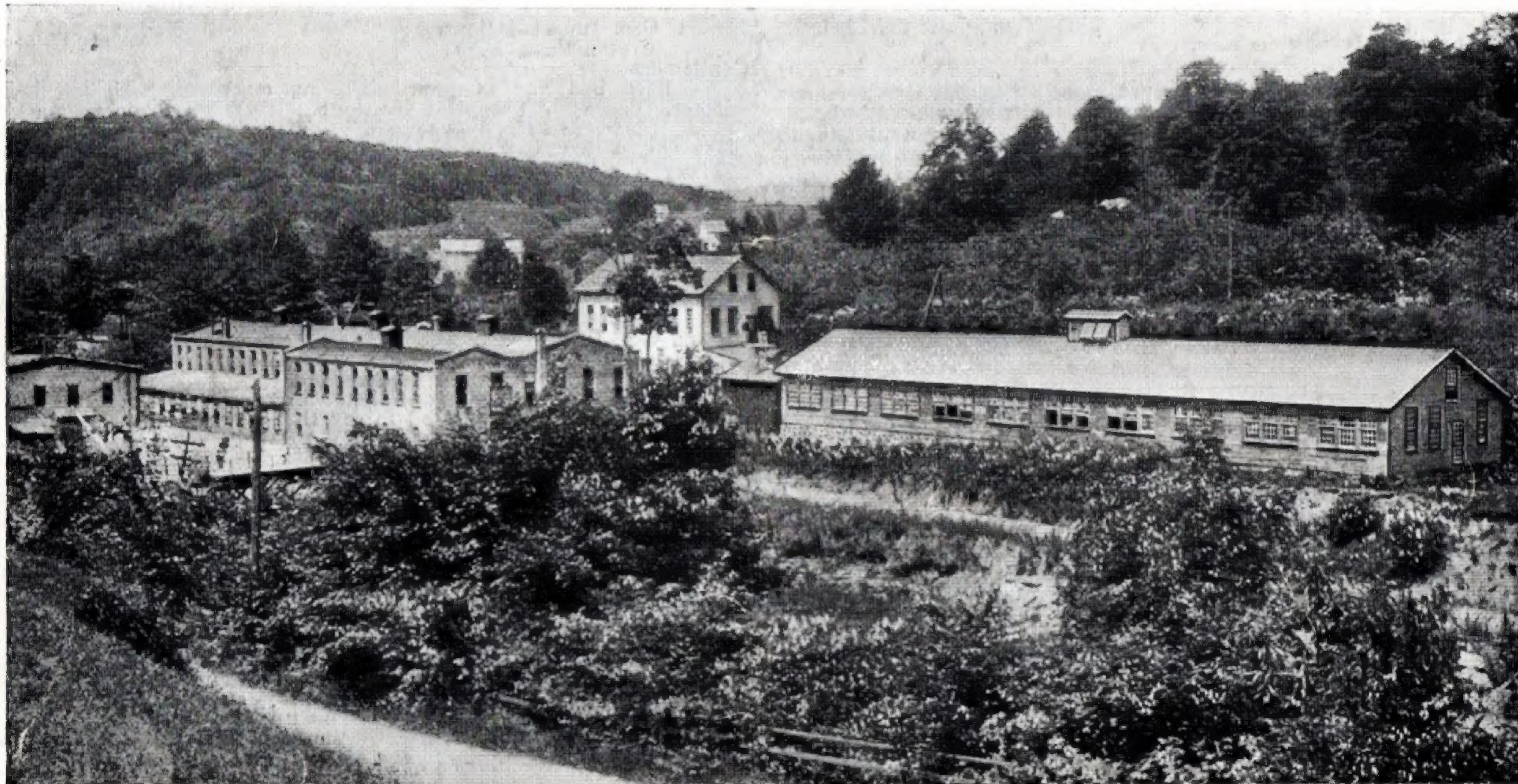
In the matter of your combined gatherer, wire stitcher and covering machine, which you placed in our establishment somewhere about four years since, we can say that for a machine that accomplishes so much, our product has been entirely satisfactory and fully up to your statements. Trouble has been a minimum.

We should be pleased to say a good word for the machine any time or to show it running in our establishment.

Our second machine has been in about two years.

Yours truly,  
CHARLES FRANCIS PRESS.  
CHAS. FRANCIS, Pres't.





Juengst Shops, Croton, N. Y.



